May 14, 1996

Ms. Verneta Simon
U.S. Environmental Protection Agency
77 West Jackson Boulevard, SE-5J
Chicago, IL 60604-3590

RE: Lindsay Light II Site, 316 East Illinois Street, Chicago, Illinois -- STS Project No. 27313-XA

Dear Ms. Simon:

This letter is in response to your letter of March 13, 1996. That letter indicated the work required by the Administrative Order of Consent (AOC) has been completed. However, the requirements delineated in Paragraph 24 of the AOC still need to be satisfied. Response to this requested information is presented below.

Paragraph 24 indicates the final report shall contain the following:

- **Identification of the facility.**
  Included in the final report, Section 1.2, Site Description and Site History.

- **Description of the locations and types of hazardous substances encountered at the facility.**
  Included in Section 3, Investigation Results, and referenced figures and tables.

- **A chronology and description of the actions performed.**
  - May 14, 1994

  Survey crew lay out of 6 meter grid site-wide and 1 meter grid within identified limits of former stable building - 7:00 am - 4:45 pm.

  Gamma radiation surveying conducted including 6 meter grid and inter-grid survey - 11:00 am - 9:10 pm

  - May 15, 1994

  Gamma radiation survey continues including completion of 6 meter and beginning of 1 meter grid - 7:00 am - 4:15 pm

  - May 17, 1994

  Check influence of casing on gamma detection. Use calibration soil drums at Kerr-McGee West Chicago facility - 1:30 pm - 3:45 pm

STS Consultants Ltd.
Consulting Engineers

1415 Lake Cook Road
Deerfield, Illinois 60015
847.272.6520/Fax 847.498.2721

- May 20, 1994

Meet with USEPA on site and select boring and sampling locations - 1:00 pm - 4:20 pm.

- May 21, 1994

Conduct downhole gamma logging. Complete 1 meter grid survey QA resurvey on minimum 10% - 8:00 am - 7:45 pm

- May 22, 1994

Complete downhole gamma logging , collect soil samples for radiological and chemical analysis. Complete all gamma logging and sampling. Grout all borings. Complete chain of custody and ship samples. All decon water and soil cuttings secured in locked trailer on site - 8:00 am - 6:15 pm

- July 8, 1994

Gamma spectral analysis had been completed. Sample analysis for thorium and uranium isotopic analysis have been completed. RCRA hazardous waste characterization has been completed.

- November 17, 1994

Analysis of decontamination water completed and approval for disposal obtained from Illinois Department of Nuclear Safety (IDNS)

December 6, 1994 - Approval received from IDNS for discharge of decontamination water to sanitary sewer system.

February 3, 1995 - Approval to discharge decontamination water to sanitary sewer from Metropolitan Water District.

- November 18, 1994

Draft of Site Characterization report submitted to USEPA.

- March 28, 1995

Review comments received from USEPA.

- July 26, 1995

Report revision/response to comments submitted to USEPA.

- October 13, 1995

Submittal of final for Site Characterization report.

(Note: No response activities were undertaken except for the disposal of the decontamination water. The soil cuttings were submitted for soil testing (Quanterra) and no material remained.)

- **A listing of the resources committed to perform the work under this order.**

  Financial - Invoices through November 1995 total $195,613.98.

  Personnel
  - STS Consultants

  Six-geologist/chemist/engineer/industrial hygiene
  Three-technician/CPT rig operator/driller
  Six-word processing, drafting, reprographics staff

  - MJW

  One principal scientist
  One technician/field staff
  Five-office, computer, word processing staff

  - Certified Construction (Survey Crew)

  Two person survey crew

  Mechanical
  - Cone penetrometer test rig (hydraulically pushed sampling equipment).
  - Hollow stem and solid flight auger drill rig.
  - Colog MXG logger, electronic winch assembly, computer interface and Mt. Sopris Model HLP-2375-I gamma radiation probe.

  Technological
  - Radiological analytical facilities at Quanterra (formerly ITAS) in Earth City, Missouri.
  - Chemical analysis for RCRA characteristic waste, also at Quanterra.
  - Ludlum 44-10 2x2 inch NaI detector coupled with an ESP-1 portable ratemeter/scaler (2).
  - Bicron microRem LE tissue equivalent doserate meter.

- **Identification of all items that affected the actions performed under the Order and discussion of how all problems were resolved.**

  The principal difficulty encountered was the presence of obstructions at depth, likely pavements or basement floors, or large blocks of rubble in the fill. These obstructions prevented full depth downhole gamma logging at several locations.

Response to the presence of the obstructions was to first record the gamma readings for the partial depths penetrated by the borings above the obstructions, and to off-set the borings to attempt to move off the obstruction/pavement/etc. In that the zone of interest was generally on the order of 1 to 2 meters deep, the locations where obstructions were encountered at a depth indicative of a basement floor, i.e., 3 meters deep, the usefulness of the data was not significantly diminished.

- **A listing of quantities and types of materials removed.**
  The only material removed was the decontamination water which had been tested and found to be clean, which was disposed of by discharge into the combined storm/sanitary sewer system on site.

- **Presentation of the analytical results of all sampling and analyses performed.**
  Included in Tables 4 through 7, with backup detail comprising Attachment E, Analytical Reports.

Please contact the undersigned with any questions you may have regarding this matter.

Regards,

STS CONSULTANTS, LTD.

Richard G. Berggreen
Project Coordinator

cc: Dan White, Kerr-McGee Corporation
Charles Gardner, Chicago Dock & Canal Trust

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